## AMENDMENT TO THE CLAIMS

- 1. (currently amended) An inrush current controller for a device, comprising:
  - a connector for plugging the device into a source of energization, the connector including
    a first contact for connecting to a first power supply contact of the source, a
    second contact for connecting to a logic output from the source, and a third
    contact for connecting to a second power supply contact of the source;
  - an impedance having a current input that couples to a the first contact of the connector, an impedance control input, and a current output coupling to the device; and
  - an impedance control circuit having a logic input coupling to a <u>the</u> second contact of the connector, and having an impedance control output connected to the impedance control input, the impedance control output forcing the impedance OFF during a first time interval controlled by a first timer, and the logic input output from the <u>source</u> enabling a limited inrush at the current input during a second time interval controlled by a second timer.
- 2. (original) The inrush current controller of Claim 1 wherein the device comprises a data storage device and the source of energization comprises a host computer system.
- 3. (original) The inrush current controller of Claim 1 wherein the impedance is continuously variable as a function of the control input.
- 4. (previously presented) The inrush current controller of Claim 1 wherein: the first timer couples to the current input and the impedance control output, and provides a first timer output that forces the impedance OFF during the first time interval; and

- an inrush current limit circuit coupled to the logic input and the impedance control output, and providing an inrush current limit output controlled by the second timer.
- 5. (previously presented) The inrush current controller of Claim 4 wherein the first timer output overrides the inrush current limit output to the impedance control output.
- 6. (previously presented) The inrush current controller of Claim 5 wherein the first timer output is an open circuit after the first time interval.
- 7. (original)The inrush current controller of Claim 4 wherein the inrush current limit output gradually changes the impedance control output during a turn-on interval so that a device voltage has a slew rate that does not exceed than 12 volts per 100 milliseconds.
- 8. (original) The inrush current controller of Claim 7 wherein the device has an impedance that is partially inductive.
- 9. (previously presented) The inrush current controller of Claim 4 wherein the first timer resets automatically when the connector is disconnected from the source of energization.
- 10. (currently amended) The inrush current controller of Claim 4 wherein the <u>first</u> timer is triggerable by voltage transients at the current input.
- 11. (original) The inrush current controller of Claim 1 wherein the logic input triggers the limited inrush when the logic input is open circuit, and when the logic input is at a high level.
- 12. (original) The inrush current controller of Claim 1 wherein the impedance comprises a transistor.

- 13. (currently amended) An inrush current controller for a device, comprising:
  - a connector for plugging the device into a source of energization, the connector including a first contact for connecting to a first power supply contact of the source, a second contact for connecting to a logic output from the source, and a third contact for connecting to a second power supply contact of the source, and an impedance having a current input that couples to a the first contact of the connector, an impedance control input, and a current output coupling to the device; and
  - an impedance control circuit that forces the impedance OFF during a first time interval controlled by a first timer, and that enables a limited inrush at the current input during a second time interval that is controlled by a second-timer the logic output from the source.
- 14. (previously presented) The inrush current controller of Claim 13 wherein the impedance control circuit further comprises a logic input that receives a logic input.
- 15. (previously presented) The inrush current controller of Claim 13 wherein the impedance control circuit further comprises an impedance control output coupling to the impedance control input for controlling the impedance.
- 16. (original) The inrush current controller of Claim 13 wherein the device comprises a data storage device and the source of energization comprises a host computer system.
- 17. (previously presented) The inrush current controller of Claim 13 wherein the impedance control circuit further comprises:
  - a first timer that couples to the current input for providing a timer output that forces the impedance OFF during the first time interval; and

- an inrush current limiter that provides an inrush current limit output enabling the limited inrush.
- 18. (previously presented) The inrush current controller of Claim 17 wherein the first timer means is triggerable by voltage transients at the current input.
- 19. (currently amended) A method of energizing a device, comprising:
  - providing a connector for plugging the device into a source of energization, the connector including a first contact for connecting to a first power supply contact of the source, a second contact for connecting to a logic output from the source, and a third contact for connecting to a second power supply contact of the source;
  - placing an impedance between a current input that couples to a the first contact of the connector and a current output that couples to the device;
  - providing an impedance control output connected to an impedance control input, the impedance control output forcing the impedance OFF during a first time interval controlled by a first timer; and
  - providing an impedance control circuit with a logic input coupling to a the logic output from the source at the second contact of the connector, the logic input output enabling a limited inrush at the current input during a second time interval controlled by a second timer.
- 20. (original) The method of Claim 19 further comprising: controlling a continuously variable impedance between the current input and the current output.
- 21. (previously presented) The method of Claim 19 further comprising:
  coupling the first timer to the current input and the impedance control output;
  providing a first timer output that forces the impedance OFF during the first time interval;

coupling an inrush current limit circuit to the logic input and the impedance control output, and

providing an inrush current limit output enabling the limited inrush.

- 22. (previously presented) The method of Claim 21 further comprising: overriding the inrush current limit output with the first timer output.
- 23. (original) The method of Claim 21 further comprising: gradually changing the inrush current limit output during a turn-on interval so that a device voltage has a slew rate that does not exceed a preselected limit.
- 24. (previously presented) The method of Claim 21 further comprising: automatically resetting the first timer when the connector is disconnected from the source of energization.
- 25. (previously presented) The method of Claim 21 wherein the first timer is triggerable by voltage transients at the current input.